



- Drafts
- Pending
- Active
 - L1: (247537) high adj density
 - L2: (2420645) weight or weighted
 - L3: (26013) 1 same 2
 - L4: (230725) drill or drilling
 - L5: (312) 3 same 4
 - L6: (9467) tungsten near5 (steel or string)
 - L7: (1588) 4 and 6
 - L8: (819) 2 and 7
 - L9: (39) weighted adj drill
- Failed
 - "166".cccls.
- Saved
- Favorites
- Tagged (14)
- UDC
- Queue
- Trash

DB: US-PG-PUB;USPAT

Default operator: OR

☐ Highlight all hit terms initially

	U		Document ID	Issue Date	Pages	Title	Current OR	Current XRef	Retrieval C	Inventor	S	C	
1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 4310059 A	19820113	5	Composite heavy metal drill collar	175/320	385/333; 385/381.1;		Moore; Norman B.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 3167137 A	19650126	3	Weighted drill collar [TEXT AVAILABLE IN USOCR DATABASE]	175/320			HUNEHREY HOWARD C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 3047313 A	19620731	3	Weighted drill collar [TEXT AVAILABLE IN USOCR DATABASE]	138/47	138/140; 175/320;		ERUCE GEORGE H	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 2958512 A	19601101	3	Weighted drill collar [TEXT AVAILABLE IN USOCR DATABASE]	403/42	138/103; 138/149;		HUNEHREY HOWARD C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5	<input type="checkbox"/>	<input type="checkbox"/>	US 6315063 B1	20011113	8	Reciprocating rotary drilling motor	175/57	173/73; 175/92		Martini; Leo A.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6	<input type="checkbox"/>	<input type="checkbox"/>	US 5711386 A	19980127	24	Equipment to reduce torque on a drill string	175/325.3	384/508		Swietlik; George	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7	<input type="checkbox"/>	<input type="checkbox"/>	US 5472049 A	19951205	11	Hydraulic fracturing of shallow wells	166/250.1	166/177.5; 166/191;		Chaffee; Brent F. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8	<input type="checkbox"/>	<input type="checkbox"/>	US 5456317 A	19951010	13	Buoyancy assisted running of perforated tubulars	166/296	166/376; 166/380;		Hood, III; John L. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9	<input type="checkbox"/>	<input type="checkbox"/>	US 4763734 A	19880816	13	Earth drilling method and apparatus using multiple	175/61	166/117.5; 175/62;		Dickinson; Ben W. O. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10	<input type="checkbox"/>	<input type="checkbox"/>	US 4624327 A	19861125	10	Method for combined jet and mechanical drilling	175/67	175/70		Reichman; James R.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11	<input type="checkbox"/>	<input type="checkbox"/>	US 4373582 A	19830215	15	Acoustically controlled electro-mechanical	166/66.4	166/321; 166/374;		Bednar; John M. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Ready

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